Your latest: 100% • Your highest: 100% • To pass you need at least 70%. We keep your highest score.

1. In the training set below, what is $x_4^{(3)}$? Please type in the number below (this is an integer such as 123, no decimal points).

1/1 point

Size in feet ²	Number of bedrooms	Number of floors	Age of home in years	Price (\$) in \$1000's
X1	X ₂	Х3	Хų	
2104	5	1	45	460
1416	3	2	40	232
1534	3	2	30	315
852	2	1	36	178

30

⊘ Correct

Yes! $x_4^{(3)}$ is the 4th feature (4th column in the table) of the 3rd training example (3rd row in the table).

1/1 point

- 2. Which of the following are potential benefits of vectorization? Please choose the best option.
 - O It makes your code run faster
 - O It can make your code shorter
 - O It allows your code to run more easily on parallel compute hardware
 - All of the above



Correct! All of these are benefits of vectorization!

3. True/False? To make gradient descent converge about twice as fast, a technique that almost always works is to double the learning rate alpha.

1/1 point

- False
- True



⊘ Correct

Doubling the learning rate may result in a learning rate that is too large, and cause gradient descent to fail to find the optimal values for the parameters $oldsymbol{w}$ and $oldsymbol{b}$.